INFORMAL REPORT AND INDEX OF

NAVIGATION, DEPTH, MAGNETIC AND SUBBOTTOM PROFILER DATA

(ISSUED MAY 1981)

RAMA EXPEDITION

LEG 9

Agana, Guam (31 January 1981) to Agana, Guam (16 February 1981)

R/V T. Washington

Co-Chief Scientists - L. Dorman (SIO) M. Reichle (SIO) D. Bibee (Oregon State University)

Resident Marine Tech - R. Wilson

Post-Cruise Processing and Report Preparation by S.I.O. Geological Data Center

Data Collection Funded by NSF and ONR Grant Numbers OCE77-23258 and ONR-0440 Data Processing Funded by SIA, NSF and ONR

NOTE

This is an index of underway geophysical data edited and processed shortly after the completion of the cruise leg and is intended primarily for informal use within the institution. This document is not to be reproduced or distributed outside Scripps without prior approval of the chief scientist or the Geological Data Center, Scripps Institution of Oceanography, La Jolla, California 92093.

GDC Cruise I.D.# - 184

INFORMAL REPORT AND INDEX OF NAVIGATION, DEPTH, MAGNETIC AND SUBBOTTOM PROFILER DATA

Contents:

Index Chart - gives track of cruise leg and boundaries of depth compilation plots (see below).

Track Charts - annotated with dates (day/month) and hour ticks. The scale is .3 in/degree longitude.

Profiles - depth and magnetic anomaly vs. distance. Dates (day/month) and positions of major course changes (greater than 30 degrees) are annotated. Sections of track having subbottom profiler (airgun) records have a solid black line along the bottom of the profile.

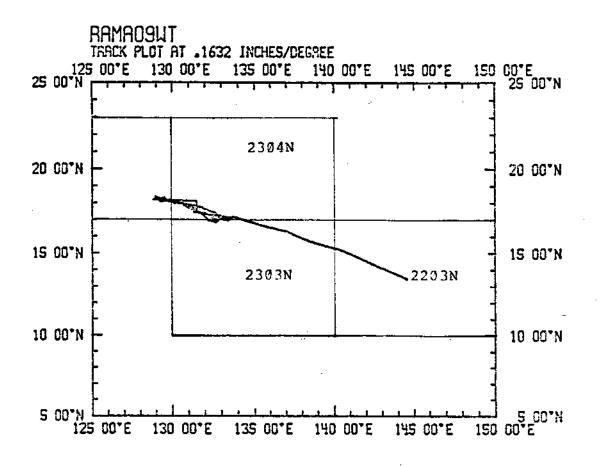
For information on the availability and reproduction costs of data in the following forms, contact S. M. Smith, Curator, Geological Data Center, Scripps Institution of Oceanography, La Jolla, California 92093. Phone (714) 452-2752.

- Navigation listing of times and positions of course and speed changes, fixes and drift velocity.
- Depth compilation plots in fathoms (assumed sound velocity of 800 fm/sec) or meters (assumed sound velocity ~f 1500m/sec) at approximately 1 mile spacing, plotted at 4in/degree with standard U. S. Navy Oceanographic Office BC series boundaries (see index chart).
- 3. Plots of magnetic anomaly profiles along track map scale = 1.2inch/degree, anomaly scale between 15N and 15 S latitude = 500 gamma/inch, anomaly scale north of 15N and south of 15S = 1000 gamma/inch, from values retrieved at approximately 1 mile spacing and regional field removed using the 1975 IGRF.
- Card decks of navigation, depth and magnetics (for specific formats, contact S. M. Smith, Geological Data Center).
- 5. S.I.O. Sample Index list of beginning and end times and positions of all underway records as well as all other samples (geology, biology, physical oceanography, etc.) collected on the cruise leg.
- Microfilm or Xerox copies of:
 a. Echosounder records 12 and 3.5 kHz frequency

b. Subbottom profiler records (airgun)

c. Magnetometer records

d. Underway data log

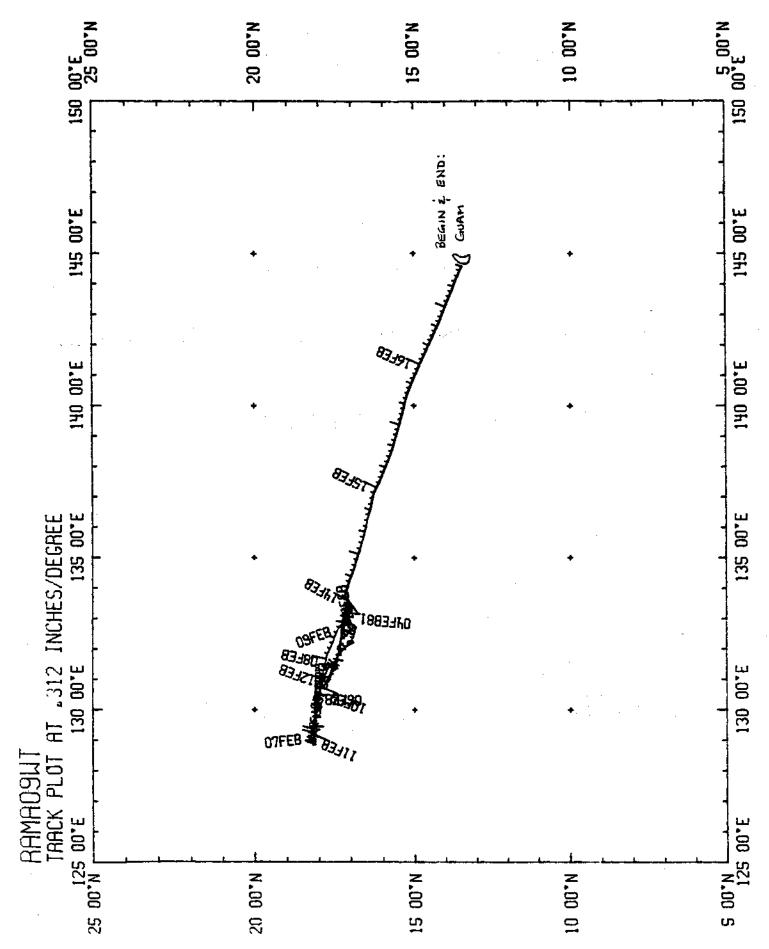


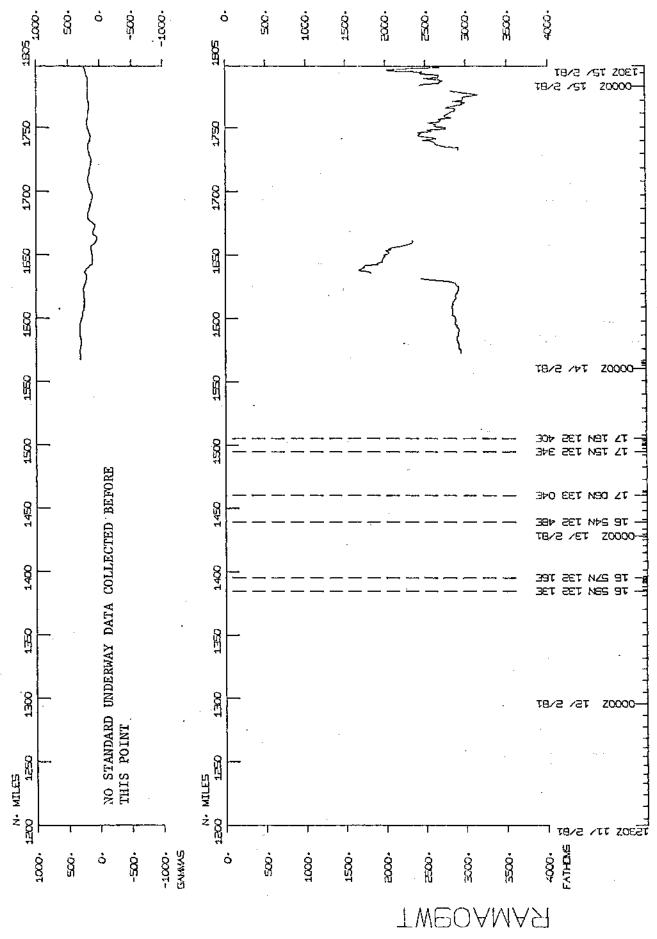
RAMA EXPEDITION LEG 9

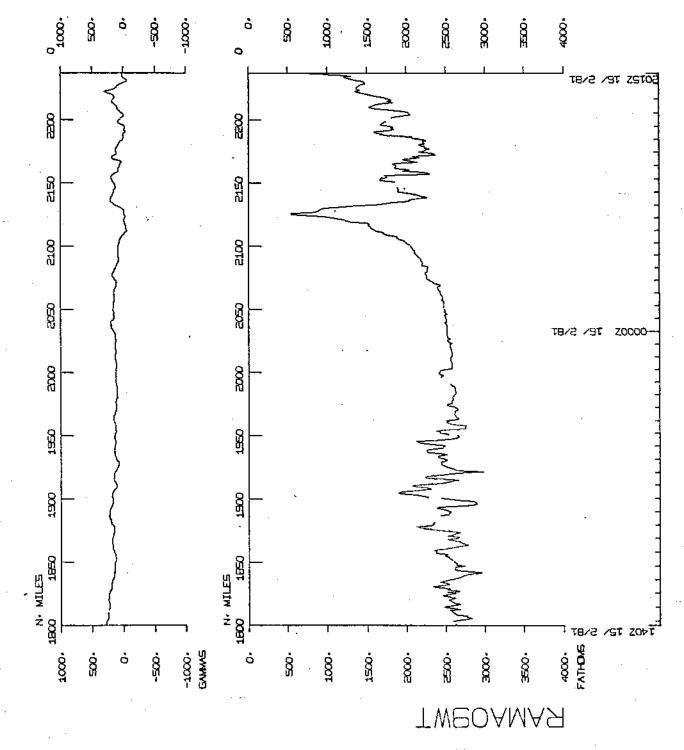
Co-Chief Scientists: L. Dorman and M. Reichle (SIO) and D. Bibee (OSU) PORTS: Agana to Agana, Guam DATES: 31 January - 16 February 1981 SHIP: T. Washington

TOTAL MILEAGE OF UNDERWAY DATA COLLECTED

- 1) Cruise 2244 miles
- 2) Bathymetry 570 miles
- 3) Magnetics 664 miles
- 4) Seismic Reflection none collected
- 5) Gravity 617 miles







S.I.O. Sample Index

(Issued May 1981)

RAMA EXPEDITION LEG 9

Agana, Guam (31 January 1981) to Agana, Guam (16 February 1981)

R/V T. Washington

Co-Chief Scientists - L. Dorman (SIO) M. Reichle (SIO) D. Bibee (OSU)

Resident Marine Tech - R. Wilson

Post-Cruise Processing and Report Preparation by S.I.O. Geological Data Center

Index Encoding Funded by NSF Grant Number OCE80-22996 Index Processing and Report Preparation funded in part by SIA

The Sample Index is a first level interdisciplinary listing of time, position, sample identification and disposition of all samples, records and measurements collected on this cruise leg. The index data are encoded at sea by the resident technician and processed on shore by the S.I.O. Geological Data Center shortly after the completion of the cruise leg.

Positions are interpolated on the basis of sample time by comparison to a single, edited navigation file. Samples beginning at one time and position and ending at another are entered on two consecutive cards. Disposition and sample type are represented by three and four character codes to permit future computer searches on these parameters. (Listings defining these codes are available from the Geological Data Center.)

GENERATED 30APR81

. .

(RAMAO9₩T) ***

S•I•C *** RAMA LEG 9 SAMPLE INDEX

•••							••••		
	60E		120 E	180	12	OW	60W	OM.	
	++.	+	+	++	+	+ +	+	++	
85N		* X *	= SHIP*S	TRACK BY	5 DEGREE	SOUARE			85N
80N				-			0 000	0	80N
75N		()			0 00000	0000000	000	75N
70N		0000000	00000			0000 0 00			TON
65N	0000 00000			00000000	00000000		00 0000		65N
60N	0000000000000				00000000		00 00	_	60N
55N	0000000000			00	-			п	55N
50N	0000000000000000					000000000000000000000000000000000000000			50N
	000000000000000000000000000000000000000					000000000000000000000000000000000000000		00	45N
40N		000000000				000000000000000000000000000000000000000	-		40N
-	0 00000 0			-		0000000000		0	35N
35N							3	-	30N
30N	-	00000000				00000000			
25N	00/00/00/00/00			,		0000 0		000.	-
20N	0000000 00000	000 000			0	0_00	-	000	
15N		0 00				00	0	000	
10N	000000000	0	0 0 X		<u> </u>	0		004	LON
	0000000000		0			-	0000	000	5N
ON	0000000	00	00 0			í	00000		ON
55	000000	(0 0 00			(0000000		5 S
105	00000		0 0	0		(0000000000)	105
155	00000		0 0	ł			0000000		155
205	00000U O	•	00000	l		•	000000		20S
25\$	0000 0		000000	0	•	•	000000		255
305	00		0000000				8600		305
355	00		00 00				00000		355
405	••••		+-	ם מ			000		405
455				0			00		455
505				0			00		505
555				1	• .		0		555
						•	U		60S
605						•			
655							-		655
705	00		000000000			_	0		705
	000000000000000000000000000000000000000					0	00000	0000	755
	00000000000000					000000000000000000000000000000000000000		00000000	
	00006086080000					000000000000			
90\$	000000000000000000000000000000000000000			100000000000000000000000000000000000000	0000000000	0000000000000	UUDDDDDD 00		A02
		••••+••		+ +	*******	+ +	* * * * * * * * *	+	
	60E		1206	180	12	20W	60W	OW	
-				•					
			31 JAN81		ANA, GUAN	1			
				TO					
		· .	16FE881	- AC	GANA, GUAM	1 .			
				:					
		CHIEF	SCIENTIS		MAN + L.	GR	•		
					CHLE, M.	. GRI			
			1	BIE	66, D.	05	U		

SHIP - R/V THOMAS WASHINGTON (SID)

.

PRODUCED BY GEOLOGICAL DATA CENTER, SCRIPPS INSTITUTION OF OCEANDGRAPHY, LA JOLLA, CALIFORNIA 92093 NUMBER OF SAMPLES OF CLASS 'TYPE' GOING TO DESTINATION 'DISP'

DISP		вT	DP	Gν	T LB	YPE MG	PE	\$B	SR	Т	DTAL		· .
GDC GRD JGPP LMD MTG OSU		2	2	1	1 1 1	1	1 5 2 1 5	11	1	I I I I I I I	5 6 2 14 3 21	- -	
SC G	Ī						1			Ĩ	1		
TOTAL	I	2	2	1	4	1	15	26	1	I	52		
BT = 1 DP = 1 GV = 6 LB = 1 PE = 1 SB = 1 SR = 1 SAMP L	DEPT GRAV LOG MAGN PERS SEIS SEIS E C	H BOUK ET IC ONNE MIC MIC	S S (T L IN BUOY RUN COC	OWED SCI	ENTI	FIC	PART	Y					
RD MD TG SU	≃ Gê ≃ Lê ≃ M∦ = OR		ICAL M. D TEC STA	. RES DORMA HNOU ATE (EAR(N (E DGY NIVE	CH DE EXT. GROU ERSIT	[VIS] 2406 JP (E [Y	ON () EXT ((EXT 4194	• 3	EXT. 3360)	2752	.)

GMT D /M /Y LOC LOC IME DATE TIME TZ	CODE SAMPLE IDE SAMP .		3 CODE LAT. DISP	DAPR81 PAGE Long.	1 LEG-SH1P CRUISE	<u>.</u>
/ / 000	RAMA LEG 9 SAMPLE	INDEX	00 00.	00 00.	RAMAO9WT	
*** PURTS ***						
	LGPT B AGANA, GUA LGPT E AGANA, GUA			7N 133 29.5E S 4N 144 35.7E S		
PERSONNEL* ** NAME *** ***	TITLE ≄≁≠	* ¢ 1	* AFFILIA	TION ***	·	
	CHIEF SCIENTIST			F INCEANOGRAPHY		
	CHIEF SCIENTIST CHIEF SCIENTIST	SCRIPPS INS OREGON STAT		F OCEANOGRAPHY	, LA JOLLA	
	SPECIALIST			F OCEANOGRAPHY		
	COMPUTER TECH		-	F DCEANOGRAPHY		
6 WILLOUGHBY, D.	ASST DEV ENG	SCRIPPS INS	TITUTION O	F OCEANOGRAPHY	, LA JOLEA	CAL. 92093
7 BERLINER, D.	JR DEV ENG			F OCEANOGRAPHY	, LA JOLLA	CAL. 92093
	ENGINEER	OREGON STATI	• • • • • • • • • • • •			
9 STANDING, W. O NEWHOUSE, D.	ENGINEER Staff res asst	OREGON STAT		F OCEANOGRAPHY		CAL 02002
1 BRETHERTUN+ B.	STUDENT WURKER	OREGON STAT			, LA JULLA	UAL. 92095
· · ·	VOLUNTEER				CONTACT D. H	TTER (EXT.3675
3 MARCHISIU, G.				F DCEANDGRAPHY		
	GRAD STUDENT	OREGON STAT				
5 WILSON, R.	RESIDENT	COPIDDS THE	TITUTION C	IF DCEANDGRAPHY		CAL 92093

.

.

NOTES* AN 'X' IN THE (B)EGIN/(E)ND COLUMN FOLLOWING THE SAMPLE CODE INDICATES NO SAMPLE OR DATA RECOVERED . A 'C' INDICATES CONTINUATION OF DATA COLLECTION FROM BEFORE THE BEGINNING OR AFTER THE END OF THIS LEG. (MOURED BUTTOM INSTRUMENTS, FOR EXAMPLE). THE NUMBER APPEARING IN THE COLUMNS BETWEEN THE SAMPLE IDENTIFIER AND THE DISPOSITION CODE, FOR MANY SAMPLE ENTRIES, IS THE WATER DEPTH IN CORRECTED METERS.

•

	D /M /Y DATE				SAMPLE IDENT.	CODE DISP	04M4 LAT.	Y81 PAGE LONG.	2 LEG-SHIP CRUISE
***	UNDERWAY	DATA	CURA	TOR -	STUART M. SMITH EXT.	2752 *	¢*		
¢≠∓ [.0G BOOKS	***							
0629 2124	31/ 1/81 16/ 2/81			LBUW LBUW	8 UNDERWAY LOG E UNDERWAY LOG	GDC 1 GDC 1	7 00.7N 3 27.4N	133 29.5E S	S RAMAO9WT S RAMAO9WT
	31/ 1/81 16/ 2/81			LBSC	B OSU OBS LOG BIREE E OSU OBS LOG BIREE	050-1	7 00.7N	133 29.5E S 144 35.7E S	S RAMAD9WT
0629	31/ 1/81 16/ 2/81			1850	B SIO OBS LOG DURMAN E SIU OBS LOG DORMAN	EMD 1	7 00.7N 3 27.4N	133 29.5E S 144 35.7E S	S RAMAO9WT S RAMAO9WT
0629	31/ 1/81 16/ 2/81		•••	LBSC LBSC	B REICHLE OBS LOG E REICHLE OBS LOG	GRD 1 GRD 1	7 00.7N 3 27.4N	133 29.5E 5 144 35.7E 5	5 RAMAQ9WT 5 RAMAQ9WT
*** }	⁻ AŤHOGRAM	\$ ***			•				
0009 1938	2/ 2/81 15/ 2/81			DPR3 DPR3	B UGR 3.5KHZ R-01 E UGR 3.5KHZ R-01	60C 1 60C 1	7 00.7N 5 05.7N	133 29.5E 1 140 40.1E 1	S RAMAO9WT S RAMAO9WT
	15/ 2/81 16/ 2/81			DPR3 DPR3	B UGR 3.5KHZ R-02 E UGR 3.5KHZ R-02	GDC 1 GDC 1		140 46.58 144 35.76	
***	MAGNETOME	TER ≭	**						
0416 2016	14/ 2/8 16/ 2/8			MGRA MGRA	B MAGNETICS R-01 MAGNETICS R-01		7 10.2N 3 27.5N	133 42.7E 144 35.5E	s ramaogwt
***G	RAVIMETRI	C REC	() P D S X	¢≉≠ Cl	RATOR L.M. DORMAN (EXT	•2406)			
04(0 2124	14/ 2/81 16/ 2/81	 		GVRA GVRA	8 GRAVITYMETER R-01 E GRAVITYMETER K-01	LMD 1 LMD 1	7 10.2N 3 27.4N	133 41.3E 144 35.7E	S RAMAO9WT S RAMAO9WT
***S	EISMIC RE	FRACT	ION	- COMBI	NATIUN☆☆☆				
0905	- 7/ 2/8 8/ 2/F	L		SRCS	B SEIS. RUN RAMA09-1 E UR/EX/OB/AD	LMD 1	8 22.3N	128 59.9E	S RAMAO9WT

IME	DA		LIWE	12	CODE SAMP		SAMPLE IDENT.		DISP		LAT.				LEG-SHIP CRUISE
¥¥SONOBUOY - OCEAN BOTTOM SEISMOMETER≭¥¥															
- 903	3/	2/81			\$BOB	x	GWEN-LOST	5618M	LMD	17	05.0N	133	38.2E	s	RAMA09WT
							JUAN JUAN								
							DOE~LOST								RAMAO9WT
337 041	5/ 10/	2/81 2/81			\$808 \$808	B E	PHRED	5828M 5828M	LMD LMD	18 17	08.7N 52.2N	130 130	32.4E 44.3E	S S	RAMAO9WT Ramao9wT
814 230	7/ 11/	2/81 2/81			5808 5808	B E	HUGO BEZDEK HUGO BEZDEK	5298M 5298M	LMD LMD	18 18	21.1N 18.9N	128 128	59.5E 58.9E	s s	RAMAO9WT Ramao9WT
053 156	3/ 8/	2/81 2/81			\$808 \$808	B E	OSU OBS 12 OSU OBS 12	5689M 5689M	OSU OSU	17 16	00.7N 56.8N	133 133	29.5E 25.7E	S S	RAMAO9WT Ramao9WT
435	8/	2/81 2/81					OSU OBS 14 OSU OBS 14								
207	41	2/81	•	•	SBOB	x	OSU OBS 11-LOS	τ.	osu	17	10.3N	133	05.0E	5	RAMA09WT -
052 640					S BOB	Ε	NSU OBS 13 NSU OBS 13								
735 231	6/ 10/	2/81 2/81	• ·		SBOB SBOB	B	NSU OBS 1 NSU OBS 1	5824M 5824M	0\$U 0\$U	18 17	10.1N 59.7N	129 130	50.9E 11.3E	s s	RAMAO9WT Ramao9WT
403	6/	2/81			580B	x	NSU OBS 2-LOS		osu	18	11.2N	129	17.18	s	RAMA09WT
403 007	7/ 11/	2/81 2/81			5 808 5 8 0 8	B E	OSU OBS 3 OSU OBS 3	5626M 5626M	NSU NSU	18 18	15.1N 15.5N	129 129	04.5E 04.0E	5 5	.RAMAO9WT RAMAO9WT
	10/ 16/	2/81 2/81			S BOB SB O B	B C	M. MCKISICK M. MCKISICK	5801M 5801M	LMD LMD	17 13	52.6N 27.4N	130 144	47.8E 35.7E	s s	RAMAO9WT Ramao9WT
		2/81 2/81			\$808 \$808	B C	PHRED PHRED	6071M 6071M	1 MD 1 MD	16 13	52.9N 27.4N	132 144	41.7E 35.7E	S S	RAMAO9WT Ramao9WT
		2/81 2/81			\$808 \$808	B C	J UAN JUAN								RAMAO9WT Ramao9WT
		2/81 2/81			\$808 \$808	B C	HUGO BEZDEK HUGO BEZDEK								RAMAO9WT Ramao9WT
200 124	9/ 16/	2/81 2/81			SBOB SBOB	B C	NSU DBS 14 NSU OBS 14								RAMAO9WT Ramao9WT
		2/81 2/81					OSU OBS 13 OSU OBS 13								RAMAO9WT Ramao9w t
		2/81 2/81			SBOB SBOB	B C	NSU OBS 12 NSU OBS 12	5442M 5442M	0SU 0SU	17 13	34.3N 27.4N	131 144	26.8E 35.7E	s s	RAMAO9WT RAMAO9WT

	DA		TIME		SAMP		54MF	'L E 		···		DISF		_AT .	LON			LEG-SHIP CRUISE
135	12/	2/81			SBOB	в	osu	OBS	3		5944M	osu	16	55.3N	132	12.8E	s	RAMAO9WT
124	167	2/81			.5808	С	OSU	085	3		5944M	OSU	13	27.4N	144	35.78	S	RAMA09WT
252	14/	2/81			SBOB	8	กรบ	OBS	8		5623M	osu	17	08.9N	133	40.4E	S	RAMA09WT
124	16/	2/81		•	580B	С	กรบ	OBS	8		5623M	٥\$٥	13	27.4N	144	35.7E	\$	RAMA09WT
≠ ≠ B	¢T Η γ	THERM	UGR AP	H ×≠	ŧ													
437	2/	2/81			втхр		NO.	SAM	PLES	; =	1	MTG	17	00.7N	133	29.58	S	камаорыт
139	77	2/81			8 T X P		N O •	SAM	PLFS	5 =	1	MTG	18	15.0N	129	20.16	S	RAMA09WT
900					Ē	чD	SAM		150	X						RAM	10	9 w T